

IN THE CLAIMS

The Applicants resubmit the following amendments which were initially presented in the non-entered Amendment of October 4, 2010:

Listing of Claims

1-17. (Cancelled)

18. (Currently Amended) A method for performing a scheduling algorithm in a scheduler of a wireless communication system, comprising:

obtaining from a communication unit a minimum resource parameter that indicates a minimum number of allocation units to be scheduled for a user or service in a scheduling frame in order to meet a resource constraint of the communication unit, and

scheduling, in the scheduling frame, resources for radio access to the communication unit wherein the resources are scheduled in the allocation units and in accordance with the minimum resource parameter,

wherein the allocation units are scheduled to the communication unit ~~terminal~~ only if the minimum number of allocation units indicated by the minimum resource parameter can be scheduled for the service or user within the scheduling frame.

19-20. (Cancelled)

21. (Previously Presented) The method according to claim 18, wherein the minimum resource parameter represents a minimum number of information bits per scheduling frame for the user or the service.

22. (Currently Amended) The method according to claim 18, wherein the minimum resource parameter represents a minimum ratio of a number of processed information bits processed by the communication unit in a scheduling frame to an expended processing and operating power spent during the radio access ~~by~~ in the communication unit in said scheduling frame.

23. (Previously Presented) The method according to claim 18, wherein the minimum resource parameter represents a sufficient quantity to exceed a power efficiency threshold in the scheduling frame.

24. (Previously Presented) The method according to claim 18, wherein the minimum resource parameter is signaled periodically from the communication unit to the scheduler.

25. (Previously Presented) The method according to claim 18, wherein the minimum resource parameter is signaled from the communication unit to the scheduler upon request by the scheduler.

26. (Previously Presented) The method according to claim 18, wherein the obtaining of the minimum resource parameter is initiated by the communication unit upon fulfillment of power management conditions.

27. (Previously Presented) The method according to claim 18, wherein the scheduling

includes considering in addition at least one of the scheduling parameters of channel condition, amount of data available for transmission, Quality of Service (QoS), delay, data rate and carrier to interference ratio.

28. (Previously Presented) The method according to claim 18, wherein the scheduling frame has at least one of a time division, frequency division or code division frame structure.

29. (Previously Presented) The method according to claim 18, wherein the allocation units have a quantity of either one of transmittable information bits, Internet Protocol (IP) packets, code blocks or modulation symbols.

30. (Previously Presented) The method according to claim 18, wherein the minimum resource parameter is signaled by the communication unit on a separate control channel associated to a data channel over which the allocation units are transmitted.

31-33. (Cancelled)

34. (Currently Amended) A base station for use in a wireless communication network, comprising:

a processing section configured to obtain, from a mobile terminal, a minimum resource parameter that indicates a minimum number of allocation units to be scheduled for a service or user in a scheduling frame in order to meet a resource constraint of the mobile terminal, and

a scheduler configured to schedule, in the scheduling frame, resources to the mobile terminal in a form of allocation units and in accordance with the minimum resource parameter, wherein the scheduler schedules the allocation units to the mobile terminal only if the minimum number of allocation units indicated by the minimum resource parameter can be scheduled for the service or user of the mobile terminal within the scheduling frame.

35-46. (Cancelled)